

Jim Lane's Field Notebooks Index Contd.

(Revised Index of 11/5/2014)

<u>PDF Name</u>	<u>Book Label</u>	<u>Approx. Span of Dates</u>
JL_(1970-84)_17A	1980-81	(01-12-80 / 15-11-81)
JL_(1970-84)_18	1982-83	(13-03-82 / 18-03-83)
JL_(1970-84)_19	1984	(15-03-84 / 16-03-84)
JL_(1970-84)_20	1984	(20-09-84 / 10-10-84)
JL_(1992 on)_1	1	(03-11-92 / 03-08-93)
JL_(1992 on)_2	2	(04-08-93 / 18-09-93)
JL_(1992 on)_3	3	(18-09-93 / 26-10-93)
JL_(1992 on)_4	4	(27-10-93 / Dec-93)
JL_(1992 on)_5	5	(14-12-93 / 22-12-93)
JL_(1992 on)_6	6	(23-12-93 / 06-01-94)
JL_(1992 on)_7	7	(18-01-94 / 18-03-94)
JL_(1992 on)_8	8	(21-05-94 / 08-07-94)
JL_(1992 on)_9	9	⁰⁸ (03 -07-94 / 02-09-94)
JL_(1992 on)_10	10	(02-09-94 / 17-11-94)
JL_(1992 on)_11	11	(22-11-94 / 9-03-95)
JL_(1992 on)_12	12	Jan 95 (15-03-95 / 01-04-95)
JL_(1992 on)_13	13	(02-04-95 / 07-04-95)
JL_(1992 on)_14	14	(07-04-95 / 29-04-95)

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JL_(1992 on)_15	15	(29-04-95 / 17-05-95)
JL_(1992 on)_16	16	(18-05-95 / 18-12-95)
JL_(1992 on)_16A	16A	(08-11-95 / 11-11-95)
JL_(1992 on)_17	17	(21-12-95 / 19-06-96)
JL_(1992 on)_18	18	(19-06-96 / 03-08-96)
JL_(1992 on)_19	19	(23-09-96 / Mar 97)
JL_(1992 on)_20	20	(Mar 97 / Apr 97)
JL_(1992 on)_21	21	(16-04-97 / 12-06-97)
JL_(1992 on)_22	22	(12-06-97 / Oct 97)
JL_(1992 on)_23	23	(Oct 97 / Dec 97)
JL_(1992 on)_24	24	(Dec 97 / Jan 98)
JL_(1992 on)_25	25	(10-01-98 / 22-01-98)
JL_(1992 on)_26	26	(22-01-98 / 13-02-98)

TO BE CONTINUED

Jim Lane's Field Notebooks Index

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<u>PDF Name</u>	<u>Book Label</u>	<u>Approx. Span of Dates</u>
JL_(1969-70)_1	'1969-70'	(Nov 70 / Jan 70)
JL_(1970-84)_1	1970-71	(6-12-70 / 17-2-71)
JL_(1970-84)_2	1971	(08-03-71 / 21/01/72)
JL_(1970-84)_3	1972/73	(24-01-72 / 15-02-73)
JL_(1970-84)_4	1973	(05-03-73 / 15-11-73)
JL_(1970-84)_5	1973-74	(12-04-73 / 11-06-74)
JL_(1970-84)_6	1973-74	(03-12-73 / 28-03-74)
JL_(1970-84)_7	1974-76	(03-05-74 / 24-10-75)
JL_(1970-84)_8	1974	(26-05-74 / 18-11-74)
JL_(1970-84)_9	1974-76	(28-08-74 / 02-10-76)
JL_(1970-84)_10	1974-76	(21-12-74 / 25-01-75)
JL_(1970-84)_11	1976	(25-10-76 / 27-11-76)
JL_(1970-84)_12	1977-78	(16-10-77 / 21-03-78)
JL_(1970-84)_13	1977-78	(24-10-77 / 19-04-78)
JL_(1970-84)_14	Oct 78-Apr 79	(06-10-78 / 14-04-79)
JL_(1970-84)_15	1979 (Apr-Sep)	(16-04-79 / 19-09-79)
JL_(1970-84)_16	1979-80	(26-09-79 / 23-05-80)
JL_(1970-84)_17	1980	(14-05-80 / 07-11-80)

No 13



NOTE BOOK

No. 561

J. Lane

(09) 4055100

2/4/85 → 7/4/85

2/4/95 ⁽¹⁾

5.48 - 5.58 am (→ 217)

6.00 → 6.10 am (217 → end)

6.10 → 6.12 am 82 birds on E beach
section

Feeding: 8
Washing: 4
preening: 60
other
(eg walking, cleaning): 10

6.30 → 6.40 (726 → 869)

6.14 am - temp = 15.0 °C
clear sky (except ~~some~~ low on
horizon) - light E wind

(2)

2/4/95 contd

The sunbyle first fell on the colony at 0619 hrs
(before it was in shadow of Camp island.)

Temp at 6.43 = 15.1°C

6.30 → 6.40 am count results

IN	OUT
121111111111311231	5(10)12133212112(20)2
11131312111212111251	326133161311221113(20)52
1112111431211123111	1121212121131(14)61212
11	33111321124312215232
	1111534(15)1(10)7323
	212(12)21
Total = 83	" TOTAL = 290

0641-0643 hrs

↘ E beach Section

preening - 3(12)(17)435486(12)1(10)555
washing - 231112 = 10
feeding - 1241 = 8

126 birds

③

0701 $\rightarrow$ 0711
(825 $\rightarrow$ on 2nd Page)

iii Total: 335

10561

birds on E beach

Hydrogen peroxide

(4)

2/4/95 Control

0741 hrs - temp = 17.5 °C

0730 = 988 on tape

0730 → 0740 hrs

IN	OUT
2 2 1 3 1 1 1 1 1 2 3 1 3	1 1 3 2 2 1 4 3 3 5 2 4 4 2 1 3 8
1 2 1 4 2 1 1 2 1 1 2 1 1	1 2 4 1 1 2 1 1 3 1 1 2 2 1 1 1 2 1 2 3 3
	2 1 2 2 3 4 2 1 1 1 3 2 1 2 3 3 1 4 3 1 2
	1 2 1 1 1 1 2 3 4 1 1 5 2 3 2 1 2 2 2 3 2
	3 1
Total: 47	Total: 186

0740 -

E beach sector

preening: 1 4 1 3 5 3 3 4 3 6 = 33

washing: 1 2 2 1 = 6

feeding: 1 3 = 4

chasing: 2 = 2

walking: 2 = 2

47 birds

* go back + do 710 → 712 beach
count
(see 988 on tape)

2/4/95 Contd.

(5)

Start 0800 hrs at 131 on tape.

0811 at 277 ~ ~

0811 hr temp = 20.3 °C

0800 - 0810 hrs.

IN	OUT
1111212521111111	111312214(11)332321
111111242	52212(26)111121311
	11112112/122111111
	13121112151
Total: 40	Total: 134

E breeze light → moderate
(increased)

BTW martin (3+)

Comet's VHF is on Channel 38

(6)

2/4/85 Contd.

0811 → 0812 h.o. E beach sector

preening — 14
washing — 1
feeding — $\frac{0}{15}$ in hole!

Almost deserted!

0710 — 0712 E beach sector

preening: $33^{??} (18)^{11} ???1 = 24+$
washing: $1212 = 5^{++}$
feeding: $4 = 4(+?)$
chasing: $2 = 2(+?)$
???

35+

betters dist during typing so
some ~~own~~ numbers inaudible.

(173 →

2/4/95 contd

0548 → 0558

(lost by 2) 7

IN	OUT
111211221323212111	11121122212112142
(10) 2131212111111111	1212(40) 22121222421122
112121111213111131	223112211231121132111
231131322251111	122212231221122211221
112212 2	211421112212226415
	323122252121222134
	42121133333111323
	3522323311(10)
TOTAL: 131	TOTAL: 328

60-70 feeding in field of view at 0549 hr.

0539 hr E beach sector

preening: 1131321121 = 16

washing: 111 = 3

feeding: 621 = 9

standing: 2 = 2

walking: 1 = 1

chasing: 22 = 4

standing at mounting: 1 = 1

1 Shell heard

2 Sweet heard

S end of island - little beach

Flock of c80 standing in water, most preening, some feeding; some chasing

Play area - 150 feeding energetically

at N of colony island

(8)

2/4/95 Contd

0600 - 0610 hrs
(338 → on type)

IN	OUT
241111411111111121	2233(20)5221111121
21(10)35148161134	1815131243232
8311134711283133	13211121(20)1225
1322121121213222111	25233571122333
111311112211121513231	49292125112211
421115(10)112611(12)	
111624141122	
TOTAL: 266	TOTAL: 198

↗
A not flock sizes

No birds on water in viewing area
at 0606 hrs.

Start 1000-1010 count at 550 on type
limit at 688 on type

1012 hrs - Temp = 24.7 °C

1000 - 1010 hrs

(9)

IN	OUT
36221131131112212121	11211511112
111231111211112221122	23111112422111122111
121712111122111221	1121111112111111111211
214111	5122111
TOTAL: 109	TOTAL: 89

breaze mark → strong from NE
at 1002 hrs.

Cytl head at 1018 hrs.

Overcast at 1019 hrs

1010 → 1011 hrs. E beach sector

walking	: 1	= 1
preening	: 2 2	= 4
washing	: 2	= 2
dabbling in water	3	= 3
		<u>10</u>

Strong NE wind blowing + showers to N of us.
No birds elsewhere along E shore.

(10)

2/4/95 Contd

Start 1100² - 1118² at 690 on ledge.

1113 hrs. temp = 25.0 °C

1102 — 1112 hrs.

IN	OUT
211141214112611112	512(10)222223111112
12211312111	211122112121111112
	121212111321121211
	41

TOTAL: 49

TOTAL: 110

3 Teal fly by at 1117 hrs.

1112 - 1118 hrs. E beech sector

preening: 235522225 = 28

washing: 1214 = 8

feeding: 21 = 3

39 birds

none at sand

(11)

Summary of counts on 2/4/95

Time	IN	out
0548-58	131	328
0600-10	266	198
0630-40	83	290
0701-11	93	335
0730-40	47	186
0800-10	40	134
1000-10	109	89
1102-12	49	110
1400-10	89	94
1500-10	75	97

(12)

2/4/95 Lomb

skat 847

1314 hrs - temp = 28.5°C

1300 - 1310 hrs

IN	OUT
11121123282213212	11322(12)121141122211111
121111121111222111212	2211113113112241211
112313212112111111	222221281122481321111

Total: 93

Total: 122

- Wind - non-existent to light from 1200-1300 with high cloud
- At 1300 wind picked up to moderate from NW
- Was a low pressure trough passing thru between 1200 + 1300 hrs?

2/4/95 Contd

1310 - 1342 hrs Eastern Beach section

(13)

(none on S section of beach)

- preening	9732(1)	drinking?	= 22
- washing	13222		= 10
- feeding	31		= 4
- walking	41		= 5
- resting	22		= 4

35 birds

Start 034

Temp at 1412 hrs 29.7°C

1400 - 1410 hrs

In	Out
11111112121111	11132111131121123112211122
1211211111211121112	4112111122241211112121211
11231231212121112	1311212113
1212111111111112	
Total: 89	Total: 94

(14)

2/4/95 Contd

10 - 1411
1412 - ~~1414~~

Eastern Beach section

none on S section of E beach

• preening	431 (10) 7 (12) 111	=	40
• washing	22136	=	14
• mounting	1	=	1
• skulking	2	=	2
• walking	11	=	2
• closing	1	=	1
• feeding	1	=	1
			<u>61</u>

cc500' heard to call

2 / ~~seabirds~~ (next, next) passed
high over our island from S to N
above
to N shore of lake at 1445 hr.

866 is start of 3pm count

1512 hrs Temp is 29.6°C

2/4/95 ⁽¹⁵⁾ Contd

i definitely doubting in 3.10-3.11 cont
of E head - security?

1547hrs - temp is 29.8°C

4.12 - 4.20 pm - did

4 long rake gneiss.

Used photos 22-25 (?) incl.

Then reloaded film & started new
one

in old camera (mine) with 28 mm
lens. and 100 ASA

4.36 → 4.44 pm

photod 10 gneiss (5x2.5m)

Used photos 2-21 incl. in old camera
with 28 mm lens (100 ASA)

(16)

2/4/95 Contd.

Photographed the 12 birds (9 ♂ 3 ♀)
in sequence (Grant had tagged them
1-12)

♀ ~~4~~ joined photo was bird #1
♂ → " " " " #2

#1 has 2 eggs released from
ovaries ??

Grant took ~~eggs~~ ovaries out of each
female and put in separate vials with
formalin (only 3 of the 12 birds were ♀)

2/4/95 cont'd

* Speed with Grent in vehicle at
9 am on Thursday

(17)

* transcribe 1500-1510 tape of 2/4/88

2-3 Black-winged Stilts heard
flying east past island at
9.40 pm — this is ~~our~~ ^{our}
first record for this species on
Bellard!

Swarming of Snaggy 2/4/95

I got up at 5.30 am and counted
Stilt in and out of colony from
SE sector ~~from~~ at half hour intervals
until 8 am.

I sent Grent out in boat at

(18)

2/4/95 contd

approx 9am in SE direction
to find feeding flocks,
shoot 10-15 birds feeding,
take out oesophagus contents,
take ~3 water samples for salinity
and phytoplankton, do an invertebrate
sweep (50m²) for each bird
shot, and measure depth.

(Grant also measured the birds,
sexed them, weighed them)

I expected Grant to be back about
1pm but he didn't get back
till approx 3pm.

While waiting for him I transcribed
to his counts of morning and ~~then~~
did some more 1 hr counts

2/4/95 Contd

(19)

(till 3pm).

When Grant returned he had lunch & drink — at 3.50 pm we walked to S end of breeding colony and rephotographed the 4 $2m \times 2m$ quadrats (with 20mm pyro frame), namely ABCD, EFGH, IJKE, MNOP, for egg laying rate. We rechecked

then moved to N side of island and moved in to take photos of the 10 $5m \times 2.5m$ quadrats in same order as before, but with no tape. No hatching evident.

After that (at 5pm) we went back to camp island & photographed the 12 Best Grant

(20)

2/4/95 Contd.

had shot ~~in the morning~~ earlier
(photos just for record of breast-
abdomen plumage).

Note that 9 of the 12 birds
were male. Grant said
many birds were feeding in
pairs but he was only able
to shoot one of each pair.

Around 5.40 pm Grant +
I boated to land, ~~put~~ put
punt on Aygo, took punt to
Crossover where launched it,
boated to vehicle. I left
Grant to drive back to Kalg
+ fly to Perth (~~can't~~ ^{left} vehicle at
airport). I boated / rowed
back to camp in dark -

2/4/85 contd. (21)

Mark & Campbell have nearly
finished preparing reel.
Dorian - notebooks.

Monday

- Temps - ~~early~~ PM.
- Cages, catch, colour, watch
- [- hatching photos $\frac{1}{2}$ (guerdots)
- [- legy rate photos
- [- chicks on Croonian ledge?
- [- note drinking
- [- berber $\frac{1}{2}$, legs $\frac{1}{2}$, photos of guerdots
from other angles $\frac{1}{2}$ (each day)
- 12 room radio shed
- observe on island - take HANDS
& tape recorder.

(22)

1500 - 1510^{hrs} on 2/4/95

IN	OUT
2 2 223	3 3 2 3 2 22 3 2
2 22 2 22	2 2 2 3 22232
2 222	2 22 2 2 2
TOTAL: 75	TOTAL: 97

6 in water in field of view at 1505

1510 - 1511 hrs E beach sector

- none at S end of E beach

	washing	4	11	=	6
preening	- preening	2	1257	=	17
definitely →	drinking	1		=	1
	feeding	1		=	1
	resting	1		=	1
	pecking at water	2		=	2
					<u>28</u>

Mon 3 April 85

0600 hrs - temp is 19.7°C !
(doesn't feel like it!)

0608 - approx 300 Bst sheltering
from light $\rightarrow$ moderate N wind
in lee of shield but high "sounded"
island on NW side of camp island.
They are ~~mostly~~ ^{all} preening, with
much chattering.

When they moved at 0612 they flew
to join others in lee of ^{island}
further W.

0616 - skull of predator? (dog?)
(dog?)

(24)

3/4/95 Contd

0617 hrs fresh droppings by
rabbit (with droppings). Also
rabbit footprints. (One of the
others has actually seen a live
rabbit on our island.

Even tracks on island are also
part ruins.

0628 Approx 3000 Bats
in sheltered bays to N
of rocky island. There are
preening ~~and~~ ^{and} feeding.

1 pr seen to copulate successfully

0635 - ♀ Red-eyed vireo broken
long net.

3/4/95 Contd

(25)

Band

28 - latest arrivals - 1
birds
feeding
at 0645
intermediate - c 4
well/bully developed - c 23
28

0648 hrs - another successful egg-laying
standing in water (among
preening/feeding birds)

When preening/feeding in flocks
there is continued loud clattering
going on - reason?

0700 hrs - Temp is 19.7 °C

(26)

3/4/95 *Cont'd*

0700 hrs — birds still coming
& going in the ESE direction
as on previous days. — though
wind is light & from N

|| Some merging of flocks as they
fly in.

⇒ flock size flying out is
more significant (in terms of pair
behaviour) than flocks flying in

Note there is cloud cover this morning

0712 hrs — 1 pr Skuas flew
past our island.

0855 hrs temp = 21.8°C

3/4/95 Contd

(27)

Colors available Red, Pink, Orange, Yellow,
Light Blue, Dark Blue, Light Green
Dark Green, Purple, Black, White
Grey. = 12

For preference use: Red -
Yellow -
Dark Green -
Dark Blue -
Purple -
Black -

Do all on right leg first.

9.55 resettle → over

1001 - 1 on nest in trap

(28)

3/4/95 contd

Nest 1 — 3 eggs left by Red
Nest 2 — 3 eggs left by Yellow

1008 out of cage
by 1011 virtually all settled

Of the 5 I put traps on, 2 birds
sitting of 2 of the 5 nests unsuccessfully
hopped — at 1015 hrs.

1028: Campbell walked in & all
birds in study area lifted

1030 the 2 birds on 2 of the 5
nests had resettled — just noticed
that 3 of the 5 now have ^{sunk on} nests
— only the ^{successfully} hopped nests (2) don't have
birds sitting

3/4/95 Contd

1057 — 2 colour banded birds (29)

still haven't returned. — but other
3 still sitting

1100 →

type of sitting position
with moderate → strong
(jumps)

NW wind

(note that all directions
on type are out by
45° i.e. N is on
type is really NW)

First type at 390.

1113 hrs — almost full band + black
area — shot on edge of nest
after sitting momentarily

Leave at 1136 hrs.
— 2 banded
birds have not returned — other 3 still on
nest.

(30)

3/4/95

1146 hrs temp = ~~24.6~~ 24.6 °C

1159 hrs: *Cinclera hobbsii*? flew
overhead (over nest) at
approx 30 M!

1355 hrs Temp = 26.3 °C
Strong NW wind - Overcast

1419 — Marked nests 1 & 2 still
without sitting birds. The other
3 (unmarked) are sitting. One
egg possibly missing from Nest 2
(now 2 eggs?; formerly 3)

3/4/85 ^{Contd}

Made up a total (already had 5) 31
of 31 nest markers. Numbered
1-31 in Red permanent marker on
both sides.

1503 - Best Yellow left leg (above "knee")
is back on ^{Nest 2} eggs! Also the other
3, but Nest 1 still no bird.

This bird is relaxed facing (both sitting)
with back next door. It has
long back feathers (plumes) and
a near perfect clearest breast band
and black subventral stripe.

Now drying with bill tucked back under
right wing and eyes closed for about
periods.

1512 Facing due west (away from me)

(32)

3/4/85 contd.

Sitting positions (N = straight into wind)

Totals	1100	1	2	3
17	N	(8)	(4)	(5)
14	NE	(5)	(5)	(4)
32	E	(16)	(6)	(10)
10	SE	(4)	(1)	(5)
12	S	(2)	(4)	(6)
10	SW	(5)	(2)	(3)
19	W	(9)	(4)	(6)
12	NW	(6)	○ (0)	(6)

Sum of Norths (N, NE, NW) = 43

" " Souths (S, SW, SE) = 32

" " Easts (E, SE, S) = 56

" " Wests (NW, W, SW) = 41

Stat test for deviation from equal?

(33)

3/4/95 Contd.

1532 hr — Yellow left upper (Ylu)
is still sitting body pointed
W, both under right wing,
eyes closed.

1539 — skin unchanged.

On N beach of colony + ready
at 4.15 pm.

Started to disturb birds at 4.17
Finned 15 quadrats

at 4.32. Back sitting on N
beach at 4.35. — birds completely
settled ≤ 4.36 pm.

Used photos 2-31 inch (2 of each
quadrat) 100 ASA, new camera.

(34)

3/4/85 Contd.

No hatching yet!

Painted back to S head with white
arrowing 4-49 pm.

1652 hr — Nest 1 unattended

~~At~~ Nest 2 has sitting
bird pointed in my direction
(180° turn). Chest
marking the same. Head (bill)
under left wing.

Other 3 nests also with sitting birds.

1657 hr moved in on 4 egg laying
quailcocks. Didn't use 20 mm pipe
frame, just the existing markers.
Took photos 32-35 incl (100 ASA
28 mm lens, new camera)

3/4/85 Contd

Finished at 1701-1702 hrs. (35)

Back at observation point (behind ridge) at 1704 hrs (wedged around). Birds were settled $\leq$ 1703 hrs.

$\Rightarrow$ disturbed for max of 6 minutes

1709 hrs - nests 1 & 2 unattended.
All 3 others attended.

Breast bands	Class
Chestnut with no	7
" with little	6
" with much	5
50%:50 chestnut + white	4
White with much smudging	3
" " little smudging	2
" " no smudging	1

(36)

3/4/55 contd

→ nest and count eggs in each.
5.16 pm going in to colony to mark

Nest	Eggs	Nest	Eggs	Nest	Eggs
1	3	11	3	21	2 ✓
2	3	12	3	22	2 ✓
3	2	13	2 2	23	2 ✓
4	3	14	3	24	3
5	3	15	2	25	2 ✓
6	2	16	2	26	2 ✓
7	3	17	2	27	2 ✓
8	1	18	2	28	empty ✓
9	2	19	2	29	2 ✓
10	2	20	3 ✓	30	3 ✓
				31	2 ✓

5.21 pulled out

5.22 at telescope, birds coming
back fast.

3/4/95 Contd

37

Nest

~~8th~~

$$50m \times 20m \text{ triangle} \\ = 500m^2$$

$$@ 10 \text{ nests}/m^2 \\ = 5000 \text{ nests. } (?)$$

Mostly 1 egg (E end)

More developed on W end.

$$1 \text{ egg} = 45-50\%$$

$$2 \text{ eggs} = 25-30\%$$

$$3 \text{ eggs} = \text{remainder}$$

$$4 \text{ eggs} = 1\%$$

Test egg weights!

(38)

3/4/95

Count

7.06 pm Temp = 21.9 °C

Sitting: ^{stood} 5, 6, 7, 8, 9, 16, 4, 15, 10,
14, 11, 12, 17, 19, 20, 24, 26, 30, 31

Not Sitting

3, 1, 13, 21, 25, 23, 28, 27, 29

Finished at 5.24 pm.

5.26 pm start

Sitting: 4, 5, 6, 7, 8, 9, 10, 11, 12, 13,

~~14, 15, 16, 17, 18, 20, 21, 24,~~

Not Sitting: 1, 2, 3, 25, 26, 30, 31,

23, 28, 27, 29

5.31 pm finish

Nest No 10 - bird with brown feathers (S)
on crown.

3/4/95 ^{10:30} ~~contd~~

5.43 pm

(39)

Unsettled - 1, 2, 3,

Nest

Bird

4

"well devel"; "some ~~white~~
white smudging"

5

"v. well devel"; "little or no
smudging"

6

"observed"

7

"v. well devel"; "faintest trace
of smudging"

8

"well devel"; "some white
smudging"

9

ditto

10

ditto + brown feathers
on crown

11

ditto (except crown)

12

can't see

13

"only see top part of head"
"well developed"

(40)

nest

band

3/4/95

Cont'd

14 - can't see

15 - " "

16 - "v. well devel on side",
"can't see evidence of smudging"

17 - can't see

18 - " "

19 - " "

20 - " "

22 - unattended

21 - can't see

23 - unattended

24 - "chestnut band with fair amount
of white smudging"

25 - can't see

26 - " "

27 - unattended.

30 - ~~perf~~ "perfectly developed
chestnut band".

rest

31

s

band

chitto

3/4/85

Contd

(41)

29

s

unthundered.

5.46 pm end.

* leg colour!

from HANZAB

belly
patchy

breast

black brown

chestnut

"dark smudge"

barren black-brown

white or dusky-tipped
feathers

"patchy"

ashy brown - ashy grey tips

"diffuse smudge"

"heavy mottling"

"dull" v "bright"

size (width) is wide or narrow

(42)

Tues 4/4/95

0547 hrs Temp 16.1 °C

0611 hrs - have reached S viewing position (ridge) on breeding island.
See later pages for transcription of tape recorder

Transcription from 3/4 tape pm (5.47 pm)

Nest to N of nest 17 - fair space between - close but not closest to dead tree with scrub around base.

- ^{just} ~~just~~ beginnings - white with brown surroundings

5.56 pm on 3/4/95 (transcription)
Nest 15 - brown wing feathers with black lining them.

Breast band (side) appears poorly developed

4/4/95 Contd

43

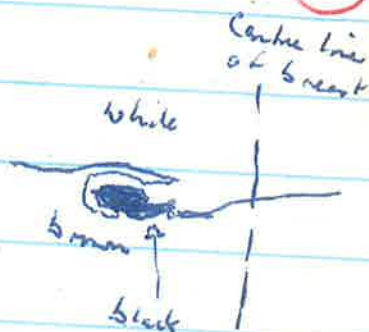
Nest 4

0648 hrs

0721

0750

0955



Nest 7

0654 hrs

0723

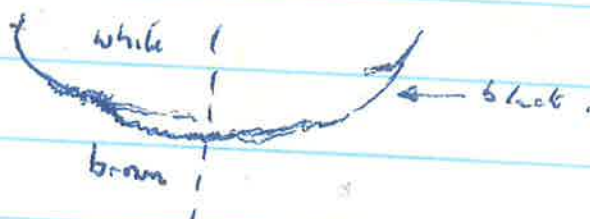
0757

0820

0923

0956

1014



Nest 14



Nest 15

0724



0708 hrs

(44)

4/4/95 Contd.

Bird on nest behind Nest 11, 12 + 13
has v. distinctive markings — number
this nest!

Nest 19.

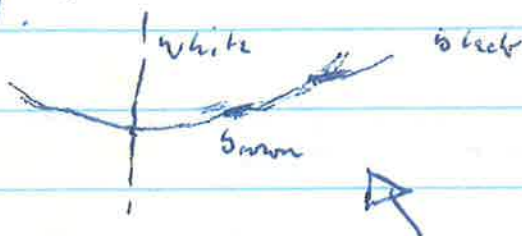
0714 hrs.

0727

0802

0822

1018 (?)



Nest 21

0716 hrs.

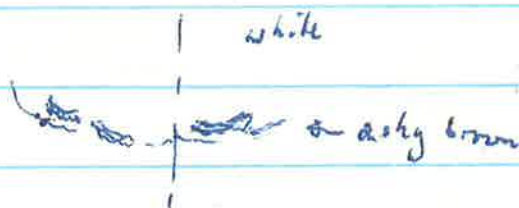
0728

0803

0822

0926

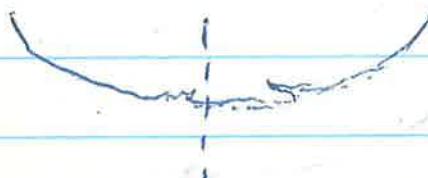
1019



Nest 25

0720 hrs

0728



Think on

Nest behind 30 has v. distinct
markings.

Tues 4/4/95 Contd.

(45)

Nest 11



Nest 12 - 0726



Nest No 5

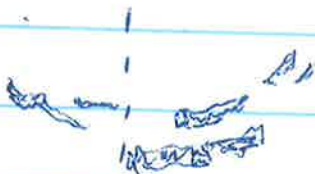
0759 hrs



Nest No 26 0806

0824

0835



6 Nest nearly white

mottled only brown -> black.

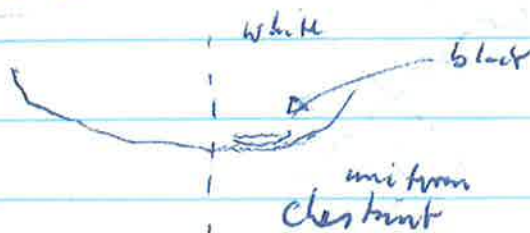
(46)

0826 hrs.

4/4/95 cont.

Nest No 30

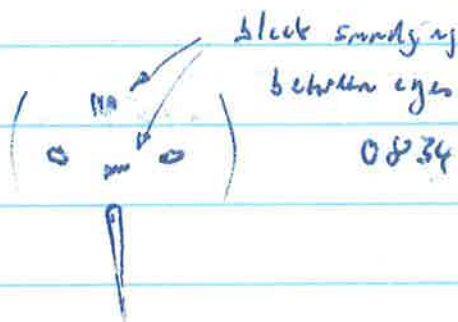
0836



Chrysothraupis at Nest 10 at 0827

Nest 20

1019



Nest 2

Time down ??

0953 (?)

1013 (?)



4/4/95 Contd.

Nest N° 3

1015 hrs.

(47)



Left the island (breeding) at 1040 hrs.
Order to camp for early lunch
(+ breakfast!) and 12 noon radio
show.

Radio - ABC's message

- contents of 3 packages?

lunch meet
board

- Count - 1 jerry weber

Bring 3
packages

- 3 rolls 100 ASA

36 exp Ektachrome.

- $\frac{1}{2}$ tank back outboard fuel

- View 097 524 586

leave I. for day PM home Sat.

(48) Trache from Radio Shop Times 4/10/55
Mark + Can

They owe Grant \$40 each
but he owes them also.

Sat AM 7.55 am flight (Arist?)
will be booked for me by Grant.

{ 2 - yellow leg birds
1 - stainless steel birds
+ literature.

packages at Kellogg's -

Grant or replacement will pick up.

Bentley chairs?

Grant will pass message to Jeremy
Hogarth (who may that do ask about
progress)

Grant to see physio ~~thru~~⁺ with
advise me of his condition Wed 12 noon
at school (but will be on Harvey drive)

4/4/85 contd

(49)

Tonyola & Komanu will be left
at Rendu airport for me and
Kye given to me ~~as~~ by Coast or
his replacement.

Left breeding colony at 1.18 pm and
reached a new colony (head) at
1.33 pm - 15 min trip ~~on~~
~~the plane~~ planning.

which just E of.

1337 hrs - almost half the birds

left off in a stampede!

"
"havers"!

2 flew in from NW

(50)

Tue 4/4/95 Crawl

dracochin - flew to low
(~~20 ft~~^{40 ft}) over colony +
most birds gave look off -
the Ravens ~~to~~ dropped for
a closer look
then continued to c 10 ft

flying in SE direction - apparently
little interest in eggs!

Ravens heard calling at 1.45 pm
from distant beach island (to S)
- "nack nack nack" call

The nesting island is small but fairly
high. The best view is probably
1.5 - 1.8 m above current water level.

From this viewing position (colony
is 255° from where I'm sitting)
it has a ~~15°~~ slope (15°)

Tue 4/4/95 Louth

with a NE aspect.

SE

(51)

end of island is steep bluff
covered with large quantities
(m³) of soil having dropped recently.

Birds nesting right to edge of
bluff - procession.

Vegetation is low shrubby stuff -
appears to be different species
(certainly different ⁱⁿ more of it)
than other ⁱⁿ island. On the

NE side the slope runs
down to water edge - there is
a beach and birds walk down
here to bathe & preen.

Many eggs scattered (not in
nests) on slope (NE) & near beach.

Many birds walking about than the
sitting birds - a great sweep

(52)

Tue 4/4/85 Contd.

with *Lelesoya* showed 4-allyls by
to capsule (morning) - many
shrubs are taller than the shell &
obscure bracts from view.

3.12
~~3.11~~ pm left observation island in
12' boat - drift down with E wind -
3.19 pm - 10 m from island & bracts still
haven't lifted.

labelled as in green with square base
(green) around number

Put in 10 quadrats (2m x 2m)
- 1234, 5678, 9101112, 13141516,
17181920, 21222324, 25262728,
29303132, (QRST, UVWX).

Note that took one photo of each
quadrat - except last (UVWX)
which I took a second photo
of, from the opposite
direction.

All the above nest tags
labelled on both sides

In black, with green
base around number

Photo'd hatching success predictions in
different sequence

4/4/95 Lookal

(53)

3.42 pm - left the island

3.45 pm - have brated ~~back~~ back
to observation island. Birds starting
to refill E end of nest area (W
end filled at 3.42 pm).

4.00 pm - back at 1st breeding island

4.12 pm - entered S end of colony

4.23 pm - pulled out of nesting area/island

Photographed laying rate of chicks
(2m x 2m - without frame)

in usual sequence (ABCD, EFGH, IJKL
~~different sequence~~ MNOP) ~~1st~~

Went south to north along western
line of juvenets, then N to S
along eastern line of juvenets.

One photo of chicks (S?) in nest

sent very thin sequence

43 Cheap cheap cell alerted me to chicks

I heard this cell yesterday & hatching
started Mon 3 April 95

Changed camera between
laying rate and
hatching success
of juvenets

photo middle line

(54)

To Do

Tue 4/4/95 Contd

Wed 5/4/95

- observe birds on mainland
nests & tomorrow

- observe chicks

- rephoto ^{at 3.20 pm} new colony ^{from both directions}
(+ delete photos & veg symbols)

- Number more nests *
and record their egg
+ test for freshness?
numbers ✓ do same time

5.16 pm as first done on Monday -

- rephoto ^{note} laying ~~and~~ quadrats
+ hatching quadrats

- measure beak depths

5 pm → 6 pm survey Crossover debris

- read for ABC interviews

- transcribe from tape (4/4) ✓

- photograph birds on mainland
nest with 500 mm lens

tomorrow

Radio Street 12 noon

Tue 4/4/88 contd

(55)

- first outboxed at

- Mark individual nest ^{of varying egg numbers} at 2nd

3.20
pm

looking and count no's off eggs
and test eggs for warmth -

do Wed, Thurs + Fri. Photo

eggs in each nest on last day.

- need HANZAB to see what needs
to be done

- need DNA papers to see how
these eggs out.

in gradients?

(56)

Skat ^{Wed} 5/4/85

Radar show Wed

- bring egg cartons (3 x 12)
- don't need fuel?
- Tell Vero home Sat ^{evening}
(097) 524 586

* 0202 # phone N^o ← to make
a phone call

\$240 to Park - Ansett

9.30 Thursday - Great will start
with us.

(63) 5242348 Jeremy
5242341

WLL 5/4/95 ~~WLL~~

Transcription of Tye Records (57)
Notes of yesterday (Tues 4/4/95)

6.23 am :

Nest 1 unclerked

Nest 2 "

Nest 3 "

Nest 4 sitting bird - well developed
chestnut band, some faint
white sandy ~~but~~ ~~very~~ ashy-grey
sandy

Nest 2 ^{bird} beautifully developed chestnut
band, no trace of sandy, grey,
black borders to band.

Nest 5 hard to see - appears
fairly well developed, but with some
sandy.

(58)

Wex 5/4/95 Contd

Nest 6: well developed, some white
+ ashy grey smudging, doesn't have
distinct black borders to back.

Nest 7: ^{head} A species well developed

Nest 8: well developed - fair
of white - ^{ashy} grey smudging, doesn't
have distinct upper boundary to back,
has breast just to left of centre,
(upper edge of back)

Nest 9: side on - well developed
with some smudging

Nest 10: well developed, partially
churned, some smudging, black
upper border is developing, no
brown feathers on head (see yesterday)

Wed 5/4/95 contd.

(59)

Nest 11 well devel. band, upper
edges broken, some smudging.

Nest 12 side-on, w. well
devel band, little of any
smudging, black border is evident

Nest 13 - well devel band,
some smudging.

Nest 14 : band with quite
a lot of smudging of white &
ashy grey. Doesn't have well
defined upper border to band
and no black on that border

Nest 15 almost empty

Nest 16 band has a lot of white
& ashy grey smudging, band seems
to be formed in U-shaped rows,
broken upper boundary to band,
no black line,

(60)

Wed 5/4/95 Lntk

Nest 17: side on - well

devel. band, some white-ashy
-gray smudging, fairly well
devel. upper boundary with some
black in the upper boundary.

Nest 18 can't find

Nest 19 well devel with

some smudging, upper boundary
fairly well defined but black
line not complete yet.

Nest 20 side on, band has

a lot of white + ashy gray
smudging & a broken upper
boundary without obvious black.

Nest 21 facing me, has a lot

of white + ashy-gray smudging
and a broken ^{upper} boundary.

Wed 5/4/95 Contd

Nest 22 unattended

(61)

Nest 23 "

Nest 24 very well developed band,
very little smudging, fairly
well defined boundary but
black border is still broken

Nest 25 side on, partially
observed, band has quite a
lot of white & ashy grey smudging,
upper boundary is broken, & slight
traces of black appearing on
upper boundary.

Nest 26: facing me. Breast is
nearly white with some brown,
ashy-brown, ashy-black mottling
across breast, perhaps 80%
white, 20% mottling.

(62)

Wed 5/4/95 cont

Nest 27 unattended

Nest 28 empty nest, unattended.

Nest 30 side on, very well devel
chestnut bend, boundary express
well defined, certainly some
black on border but can't see
how complete that is. White
back feathers appear long.

Nest 29 unattended

(Now 6.32 am)

6.35 am pair of Shek flew
over colony at height of 15'
- didn't provoke any reaction
from the Skitts.

6.36 am : bird on nest to
north of nest 17 (as described

Wed 5/4/95 Lantau

(63)

yesterday) - can't see back
well but certainly ² mottled -
very much broken back.

6.39 am 2 brood nest to nest 3

~~brood~~ looks as though preparing to
molt on ground - body not
touching - breast band has
quite a bit of white & grey-green
mottling, fairly well defined
upper border ^{as} still a bit broken.
Black belly has a lot of
white & grey-green mottling.

6.42 - *Leucospiza* banded on
nests 2, 9, 4, 10, 14 & 15.

All sitting quietly, ~~and~~ No 14 + 2
have heads under right wings

(64)

Wed 5/4/95 Contd

They occasionally reach out & grab bits of earth & branches up against their body. They look around. If bird walks past they "peck" at it. Alert, keeping other birds at bay.

Nest N° 4: ~~with abundant~~
~~with~~ has distinct markings
(see sketch on earlier page)

Transcription of Tape Recorded notes
of Crossbill date of yesterday (4/4/95)

4.46 pm - Have looked from
breeding island (N° 1) to Lago
at Lake Bihlani shore

5.03 pm - looking survey of

Wed 5/4/95 Cont'd

(65)

Crows over Lake. Common Chukar

Coots - As water ducks diving off
other coots. Gynous brood of other day still
has 8 eggs in nest.

Gray Teal: swimming low in water,
flying

Pinkhead Duck several pairs, some
swimming & low in water.

Mare's Ducks ♂ with neck seen. Others
seen without neck.

Mare's Duck 2ps + 1 ♂. few

White-headed Heron 5 in dead trees
(roosting)

Shelduck ♀ here. 20⁺ flew
overhead.

(66)

Nov 5/4/95 contd

~~Shoveller~~
Shoveller

1 ♂ seen

Black Duck

2 flying overhead

6:00 pm completed survey -
no ducklings or other young
on lake.

6:45 pm temp is 22.0 °C

& moderate SE still blowing

(has gone from strong → moderate
during the day).

Beds at camp - dark -
dinner (medicines!) - bed at
3 pm (early)

Wed 5/4/95 cont'd

(67)

Freezing cold overnight with strong
E wind. Out of bed at
7:30 am (5:30 am all previous
mornings on island). Had
breakfast. Transcribed tape from
yesterday. Finished this at
9:40 am.

20

2:57 pm left camp island

3:27 pm level with west end of
next big island

3:05 pm reached viewing island
(then started at stop)

3:07 pm left viewing island to look
down to 2nd breezy island

(68)

Wed 5/4/85 Under

Photographed quadrats 1234 5678 9101112
13 14 15 16, 17 18 19 20, 21 22 23 24, 25 → 28, 29 →
32 and QRST and UVWX. Photos took
from N side then S side (i.e. twice)
then moved to next. Used photos 3-20
on with new camera (100 ASA).

except one
near edge

Nest	Eggs	Nest	Eggs	Nest	Eggs
1	2	11	2	21	3
2	2 (I broke one)	12	2	22	5
3	1	13	3	23	2
4	2	14	2	24	2
5	2	15	2	25	1
6	2	16	2	26	2
7	3	17	3	27	1
8	2	18	1	28	1
9	3	19	2	29	3
10	2	20	3	30	3

see 3 pages on for 31 → 35

(69)

Wed 5/4/95 contd

Cyclone Bobby crossed the coast near... on...
Started raining at Ballard on Saturday
25/2/95. ~~Rain~~ Rained heavily for
2-3 days (?). Lake presumably
took ~~4-5~~ ⁴⁻⁵ days to fall to its
average depth of c 40 cm.

Still were on eggs ^{some on} (in full clutches) on 15/3 which
is 18 days after rain started -
probably only 13-14 after lake filled.

First birds ~~settled~~ nested on top
of (highest point) of suitable island
(c. 1.5 m above water level).

Hatching began 3/4 i.e. 37 days
after rain started. Incubation period
is at least 19 days - may be more
Photos will tell.

(70)

Wed 5/9/85 contd

laying rate, average clutch
size will be determined
from photos.

Clutches appear to hatch over
2 days - photos will tell -
certainly not in one day.

Rate at which tube is drying
is difficult to determine due to
effect of wind.

2nd colony is approx 3.5 km
from 1st.

Wed 5/4/95 Cont'd

(71)

Nest	Eggs	Nest	Eggs
31	3	41	3
32	2 (1 egg 15 cm away)	42	1
33	4	43	1
34	2	44	1
35	3	45	1
36	3	46	2
37	2	47	1
38	2	48	1
39	2	49	2
40	1	50	2

Left island at 23 mins (ie 3.38 pm)

3.40 pm walking back to boat 20 m
from N side - great majority back at
nests except along N edge.

~~3.41 pm~~

3.41 pm - under power 50 m from beach
island 2. + birds settling

(72)

Wed 5/4/95 cont.

All the eggs felt the same
temperature - not warm
like other eggs (incubating) I
have felt - but not really
*cold either. Interpret as all being
*incubated - based on later experience (6/5)

Went on to breeding island I
and plotted laying quadrats
ABCD, EFGH, IJKL and MNOP with
old camera and photo numbers 31,
32, 33, 34 (100 ASA).

(started at approx ~~4.00~~ 4.06 pm
finished approx 4.25-4.30 pm)

changed cameras then

After laying quadrats I plotted
hatching success quadrats in same
order as yesterday i.e. S → N along

Wed 5/4/85 contd

Western line of 5 quadrats, (73)
then N $\rightarrow$ S along eastern
line of 5 quadrats. Two photos
(front half then back half) at
each = 10 photos. Most

have been photos 21 $\rightarrow$ 36 (is end of film)
= 16 photos = 8 quadrats; when film ended, changed ^{28 mm} lens back
to old camera and taken photos 35 + 36 with it $\rightarrow$ total of
only 9 quadrats
Did I miss one? *

Lindsay Copper
050 257 248

Tringale, chummin, reached,
sheave made each other, crest
a handle, section at a time
Jug each section (20-25')
Jokes 2 1/2 hrs to erect.

Also on 4 WD roof - one man
operation, platform bolts on
logs - say 25 - 120 ft!

info re mobile towers from Mark Lamble.

(74)

Start ^{Thurs} 6/4/95

- Old camera has 28mm lens and is ^(?) ready to take 36K exposure
- New camera has 50mm lens and has taken test (36K) exposure

Info used to work out what photos were used for which groundsets yesterday.

~~6.50 am~~

6.50 am - Wedge + Eagle flew into colony -

approx 6.55 am - flew out to NE with dead adult

- proceeded to set
- arrived

7.06 am - Kestrel flew twice at feeding W of Eagle.

7.10 am - Eagle flew to position West of breeding colony (on front of island)
- how - can just see his head -

Th 6/4/85 contd

Back to camp, chatted with Mark & Cam 75
organised ^{12 hrs} ~~24 hr~~ monitor of c5 nests for
tomorrow (24 hr monitor nest trip)

0834 - wetly Little Crows sat
hro. ^{white eyes}
caveas of ^{white beak to further} check on island
to west. - absolutely definite.

0836 hr - see 2nd Crows joined in
feeding on dismembered body.

0839 - 1 crow sitting (?) on
Little island 250 m north of
still colony.

0843 1 pr Shearwater flying by.

↑ note that couldn't see Wt Eagle
at 0830 hrs - presumably it has
left area.

Th 6/4/95

Calculation of when to return.

- Tarsus growth rate slows rapidly at 25 days, when it is 79% of adult length.
- 1st brood chicks hatched from incub breeding area by 6th April (today) add 25 days $\rightarrow$ 1st May.
- If we return 2 weeks from today, most chicks hatched from incub breeding area will be 14 days old $\Rightarrow$ tarsus length will be about 57%
If stay for 5 days, on last day tarsus length will be 69%.
- If 2nd brood colony started incubating 6/4 chicks will start hatching c 26/4. & won't reach 80% tarsus length till 21/5.

Th 6/4/95 contd

(77)

Transcription from type of 5/4/95

5-14 pm - commence survey of
Cromwell Lake.

Coot about 10-15 seen. Spent
bird ~~still~~ still has 9 eggs.

Mud Duck 2♀, 1♂, 1♂. ~~guess~~
may be up to 10 on lake

Wing Teal pairs, & individuals
swimming low in water - 15-20 in
total?

Potamogeton Duck
As for teal - 15-20 in total?

W. F. Heron 5 together roosting in trees.

Mud Duck 5 (2♀, 2♂ + ?)

~~Also~~ Pygmy to be only 5 on the lake.

Hairy-headed Grebe 2 adults together
with distinct head markings (breeding)

6-14 pm - finished lake survey

Conclusion - no young on water yet. ~~✗~~

(78)

Th 6/4/85 Contd

Sat morning - at airport

Shed at 1pm.

Grant Contact

Radio telephone Clive at Broome

091 935 600

Clive in office between 12 + 12.30 pm.

12.15 pm

Fredericks by 12 noon

Goldsmith went to come up Fri

- Ian Neely will suggest they either
cancel themselves with a flight

Th 6/4/95 with

(79)

with Ron Johnson on Friday
or if they have a helicopter,
we could wait together - productive
mutual cooperation. I said
for us to get there in & out on
the ground would waste valuable
time.

Ron Johnson with weekly ring
leaves tomorrow, including Ballard,
Berke & Juleps Conz. I
asked Jan Healy to get there to
take near vertical photos of breeding
colonies, estimate age and
precise location. They apparently
have cameras. I said I
don't want to have to change
extra slides - if they can shoot
me at 12 mm each day that's good.

(80)

Th 6/4/95 Winsted

I'm sure if they miss the
12 noon shot on Fri he will
get info from them & pass it
on.

Yount will have to fly up
Sat to do research for 3+
days.

I said, want to leave as
much gear as possible (incl
ammo & 2 parts) at island
for next trip - approx 3
weeks.

I ~~then~~ said I will get
bombs today, buy them out
there and then make
final decision re bombing,
but preliminary advice is that
an attempt now could cause

Th 6/4/95 lunch

(81)

major marketing - before we
~~should~~ do in 3 weeks.

TO DO - make 12 room sheet

- try call Chris at 12.15
- get off bands etc from
Feederville
- try out bands
- make decision on banding
- advise Chris of decision

Note - I will see Grant at
airport on Sat am.

Th 6/4/95 Lmld

from the Pen (on possibly center)

Males said chicks were moving
 off up in groups of 3-4 -
 they then knock up if they
 meet others - they then sort
 off downward - after 2
 broods (not always) that
 don't pick the chicks

One provides protection, another
 "nurtures" but seems to tag
 along - then there are
 aggressive broods that chase
 the chicks

Estimate 30 chicks came off
 this morning (till 11.15 am)

~~Pen~~ from frame edge
 of colony to water (25 hrs)

Th 6/4/95 Contd (83)

Feeds c 3-5 minutes. But
directing them from the colony
may take an hour. (stop
frequently to protect).

Chicks hit water,
peck at everything, then
swim & walk & wader with
parents - usually 30 cm

from parents but may go
2m away if not being harassed.

If in water & being harassed the
parent tries to get between them
& the aggressor. Most at
risk is where chicks swim
back adults stand. May be
left under water.

(84)

Th 6/4/95
Contd

1.00 pm - released chicks

4 family parties visible
in bay

each is 1 adult with 3 chicks

5 covered (now 2 - was 4?) other

adults in same general area -

- other partners?

Th 6/4/85 Contd. (85)

[Signature]

Size 8 = 6.5 mm ID

Tibia (~~from~~ A $\rightarrow$ P) = 3.6

" (D $\rightarrow$ P) = 2.6

" " " Width = 6.5

A $\rightarrow$ P = 6.8

Angle width = 6.0

A $\rightarrow$ P = 5.6

2.83 44331 34 $\leftarrow$ signs of broods

of Best encountered level with E end of
store viewing point for 2nd colony - sky
was sunny w/ with the wind. Now $\rightarrow$ strong
E ~~strong~~ wind has been blowing for 724 hrs

(86)

Thurs PM (6/4)

Male filmed adult at
Island 1 ~~for~~ fly of ^{nest}
to water edge, drinking
& going straight back
— at least 12 birds

Others were washing.

Measurement of legs of skitt (adult)
taken this morning (6/4) by Unger-t.
Eagle

~~leg~~

Tibia width (D→P)

Tibia width (A→P)

"Knee" width (D→P)

"Knee" (A→P)

mm	
Leg 1	Leg 2
2.4	2.2
5.1	5.1
7.5	7.5
7.9	8.0
8.1	8.1

Note that these legs were very
dry and skin shrivelled tight onto
bone and sinews.

The 6/4/95 Look

(87)

Transcription of 6/4 visit to 2nd
Breeding Island

3:13 pm - leaving viewing island in
boat.

Here nest numbers 32-70. to put
in (they are white legs with
numbers in red number pen,
no other markings on them. Number
is on both sides

<u>Nest</u>	<u>N^o Eggs</u>	<u>Warmth/Cold</u>
70	2	warm
69	2	4
68	2	definitely warm
67	2	warm
66	2 3	warm

(88)

Th 6/4/95 contd

Nest	Eggs	Warm/Cold	Nest	Eggs	Warm/Cold
65	3	cold	48	1	cold
64	2	cold	47	1	cold
63	2	cold	46	1	cold
62	1	worm	45	5	cold
61	1	cold	44	3	cold
60	1	cold	43	2	cold
59	2	cold	42	3	cold
58	1	cold	41	3	worm
57	1	worm	40	2	cold
56	1	cold	39	2	very cold
55	1	cold	38	3	cold
54	1	cold	37	3	warm
53	2	cold	36	2	cold
52	1	cold	35	2	cold
51	1	cold	34	3	definitely worm
50	1	cold	33	1	cold
49	1	cold	3	3	definitely cold

Interpret all the "very cold" and "definitely cold" as not incubating, the rest as incubating (89)

The stone nests were marked at this time and were on the first quadrant (1, 2, 3, 4 at corners).

I then moved on to take photos (2 per 2 - one from N & one from S side)

This is the UVWX quadrant at W end of Island.

Nest	Eggs	Warm	Nest	Eggs	Warm/Cold
1	2	warm	6	2	cold
2	1	"	7	3	definitely warm
3	1	definitely warm	8	2	Lead to say
4	2	warm	9	3	" " "
5	2	cold	10	2	warm?

(90)

Th 6/4/95 Contd

Nest	Eggs	Warm/Cold	Nest	Eggs	Warm/Cold
11	2	Cold	27	1	hard to say
12	1 buried	Very cold	28	1	" " "
13	2	hard to say	29	4	Seem cold
14	2	" " "	30	3	hard to say
15	2	" - "	31	3	" " "
16	2	" - "	32	2	" - "
17	3	" - "	33	4	" " "
18	1	" - "	34	2	warm perhaps
19	2	" - "	35	3	hard to say
20	3	Seem cold	36	3	" " "
21	3	Seem Seem cold	37	2	" " "
22	4	hard to say	38	2	" " "
23	2	cold	39	2	" - "
24	2	hard to say	40	1	" - "
25	1	maybe cold	41	3	" - "
26	2	hard to say	42	1	" - "

Th 6/4/95 Cont'd

(91)

Nest	Eggs	Warm/Cold	Nest	Eggs	Warm/Cold
43	1	cold	47	which eggs?	
44	2	hard to say	48	2	hard to say
45	1	" " "	49	2	" " "
46	2	" " "	49	3	was warm
			50	2	cold.

(Couldn't say which nest belonged to 49 tag)

Moving out at 29 min (3.46 pm)
on stopwatch. Wellhead back E
along N shore of island.

At 3.49 pm (32 min on stop
watch) am in boat east motorway
away. Birds settled behind except
for E end. Moderate → strong
E wind was blowing but it
was sunny. Most time at
E end of colony so no

(92)

Th 6/4/95 Contd

birds disturbed for more than
15-20 mins in total.

photos 2 → 21 incl,
used to ~~photo 21~~ with

Moved

4.04 pm — reached first
breeding island.

Moved ~~to~~ in correct order then

the 4 quadrats (ABCD, EFGH,
IJKL, MNOP) then took 2nd
photo of each from S side (90° shift)
(for the first time). ~~2nd~~ Dist
in different sequence, namely
IJKL, then MNOP, EFGH and ABCD.

Th 6/4/98 ^{contd.}
22 → 29

(93)

Used plots ~~27-30~~ 100 ASH new
Camera.

4-23 pair started Breeding Numbers
A wreath of eggs is individually numbered
nests (1→31) of Breeding Colony 1.

Nest	Eggs	Warm/Cold	Nest	Eggs	Warm/Cold
1	3	quite cold	12	3	warm
2	2 3	warm	13	2	warm
3	2	warm	14	3	warm
4	2 3	quite cold	15	2	
5	3	warm	16	2	warm
6	2	warm	17	3	warm
7	3	definitely warm	18	2	warm
8	1	warm	19	2	so so
9	2	"	20	3	so so
10	2	definitely warm	21	2	neither here nor there
11	3	warm	22	2	definitely cold

(94)

Th 6/4/95 contd.

Nest	Eggs	Warm/Cold	Nest	Eggs	Warm/Cold
23	2	cold	28	empty	
24	3	warm	29	2	quite cold.
25	2	warm	30	3	warm
26			31	2	quite cold.
27	2	quite cold			

~~28 empty~~
4 pm

4-28 moving out of breeding area.

For nests 1 → 31.
Interpret all the "cold" and "quite cold" and "definitely cold" as not incubating and all the rest as incubating.
(I was better at it now)

Th 6/4/95 contd

95

5.06 pm Start survey of
Crossover Lake

Black Swans: note that I saw 2
together on the water with 4 eggs
2.20 pm when I took Cam by
boat to retrieve.

Coot 2+1

Nests: 7 eggs warm — red tape
8 " " —

Muskrat Duck 1 male

(96)

Th 6/4/95 Cont.

Pink-crowned Duck

1 down in water

Muscovy Duck - 1 flying

Gray Duck - 1 down in water, 1

Black Duck - 2 flying overhead
and 1 off water.

Fri 7 April 95 (~~Start~~) (start)

Woke at 5.30, fire, breakfast, 16m

Look beyond + across to west end of

Camp Island to take photos of breeds
coming in sunrise. Used photos

30 → 3, new camera, 50mm + 70-210
100 ASA. lenses

(46)

LINDSAY

Cuppa

050 257 248